

## EAST Search History

## EAST Search History (Prior Art)

Ref #	Hits	Search Query	DBs	Default Operator	Plurals	Time Stamp
L1	2	("20030172969").PN.	US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB	ADJ	ON	2010/03/23 11:47
L12	1	"19837365"	DERWENT	ADJ	ON	2010/03/23 12:33
L13	0	buried contact and ((rear or back) with reflect\$5)	DERWENT	ADJ	ON	2010/03/23 13:45
L14	1	mis and (solar or photovoltaic) and ((rear or back) with reflect\$5)	DERWENT	ADJ	ON	2010/03/23 13:46
L15	995	mis and (solar or photovoltaic) and ((rear or back) with reflect\$5)	US-PGPUB; USPAT; USOCR	ADJ	ON	2010/03/23 13:46
L16	4	mis and buried contact and (solar or photovoltaic) and ((rear or back) with reflect\$5)	US-PGPUB; USPAT; USOCR	ADJ	ON	2010/03/23 13:47
S1	5105	buried contact or laser near1 groov\$2	US-PGPUB; USPAT; USOCR	ADJ	ON	2010/03/22 13:11
S2	5105	buried contact or (laser near1 groov\$2)	US-PGPUB; USPAT; USOCR	ADJ	ON	2010/03/22 13:11
S3	158	S2 and (solar or photovoltaic)	US-PGPUB; USPAT; USOCR	ADJ	ON	2010/03/22 13:11
S4	3	S3 and space charge	US-PGPUB; USPAT; USOCR	ADJ	ON	2010/03/22 13:11
S5	55	S3 and (transparent conductive oxide or zno or ito)	US-PGPUB; USPAT; USOCR	ADJ	ON	2010/03/22 13:12
S6	11	S3 and ((groove or contact) with spacing)	US-PGPUB; USPAT; USOCR	ADJ	ON	2010/03/22 13:38
S7	48	S3 and ((groove or contact) with depth)	US-PGPUB; USPAT; USOCR	ADJ	ON	2010/03/22 13:41
S8	72	S3 and ((groove or contact) with width)	US-PGPUB; USPAT; USOCR	ADJ	ON	2010/03/22 13:57
S9	3	S3 and ((groove or contact) with width with nm)	US-PGPUB; USPAT; USOCR	ADJ	ON	2010/03/22 13:57

S10	9	S3 and ((groove or contact) with width with micron)	US-PGPUB; USPAT; USOCR	ADJ	ON	2010/03/22 14:26
S11	26	("4239810"   "4278473" "4322571"   "4352948" "4379944"   "4427839" "4444992"   "4453030" "4570173"   "4608451" "4626613"   "4886555" "5053083"   "5258077" "5356488"   "5449626" "5580395"   "5704992" "5853497").PN. OR ("6172297").URPN.	US-PGPUB; USPAT; USOCR	ADJ	ON	2010/03/22 14:32
S12	1689	buried contact or (laser near1 groov\$2)	FPRS; EPO; JPO; DERWENT; IBM_TDB	ADJ	ON	2010/03/22 14:36
S13	30	S12 and ((groove or contact or electrode) with (distance or spacing))	FPRS; EPO; JPO; DERWENT; IBM_TDB	ADJ	ON	2010/03/22 14:37
S14	211	S12 and ((groove or contact or electrode) with (width or depth or thickness or nm))	FPRS; EPO; JPO; DERWENT; IBM_TDB	ADJ	ON	2010/03/22 14:37
S15	153	S12 and ((groove or contact or electrode) with (width or thickness or nm))	FPRS; EPO; JPO; DERWENT; IBM_TDB	ADJ	ON	2010/03/22 14:47
S16	166690	((contact or electrode) with groov\$2)	US-PGPUB; USPAT; USOCR	ADJ	ON	2010/03/22 14:59
S17	1632	S16 and (solar or photovoltaic)	US-PGPUB; USPAT; USOCR	ADJ	ON	2010/03/22 15:00
S18	615	S17 and (groove with (depth or width or nm))	US-PGPUB; USPAT; USOCR	ADJ	ON	2010/03/22 15:00
S19	474	S17 and (groove with (width or nm))	US-PGPUB; USPAT; USOCR	ADJ	ON	2010/03/22 15:00
S20	15	S17 and (groove with (width with nm))	US-PGPUB; USPAT; USOCR	ADJ	ON	2010/03/22 15:00
S21	4018	(buried or burried) contact	US-PGPUB; USPAT; USOCR	ADJ	ON	2010/03/22 15:17
S22	4012	buried contact	US-PGPUB; USPAT; USOCR	ADJ	ON	2010/03/22 15:17
S23	6	S21 not S22	US-PGPUB; USPAT; USOCR	ADJ	ON	2010/03/22 15:18
S24	5	S23 and width	US-PGPUB; USPAT; USOCR	ADJ	ON	2010/03/22 15:18
S25	0	S23 and (width with groove)	US-PGPUB; USPAT; USOCR	ADJ	ON	2010/03/22 15:18

S26	1	S23 and (width with (contact or electrode or metal))	US-PGPUB; USPAT; USOCR	ADJ	ON	2010/03/22 15:18
S27	114	S21 and schottky	US-PGPUB; USPAT; USOCR	ADJ	ON	2010/03/22 15:19
S28	8	S27 and (solar or photovoltaic)	US-PGPUB; USPAT; USOCR	ADJ	ON	2010/03/22 15:19
S29	94	S21 and (solar or photovoltaic)	US-PGPUB; USPAT; USOCR	ADJ	ON	2010/03/22 15:49
S30	3132	(solar or photovoltaic) and schottky	US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB	ADJ	ON	2010/03/22 16:35
S31	552	S30 and ((groove or hole or opening) with (metal or contact))	US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB	ADJ	ON	2010/03/22 16:35
S32	67	S30 and ((groove or opening) with (metal or contact))	US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB	ADJ	ON	2010/03/22 16:36
S33	17	S30 and (nano with emitter)	US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB	ADJ	ON	2010/03/22 16:39
S34	23	S30 and (nano with schottky)	US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB	ADJ	ON	2010/03/22 16:40
S35	23	S30 and (nm with metal with schottky)	US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB	ADJ	ON	2010/03/22 16:41
S36	23	S30 and ((buried or burried or groove or opening) with schottky)	US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB	ADJ	ON	2010/03/22 16:43

S37	3132	(solar or photovoltaic) and schottky	US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB	ADJ	ON	2010/03/22 18:22
S38	61	S37 and ((channel) with schottky)	US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB	ADJ	ON	2010/03/22 18:22
S39	89	(solar or photovoltaic) and (mis near1 junction)	US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB	ADJ	ON	2010/03/22 18:29
S40	1217	(solar or photovoltaic) and (metal with insulator with semiconductor)	US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB	ADJ	ON	2010/03/22 18:33
S41	562	(solar or photovoltaic) and (metal near1 insulator near1 semiconductor)	US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB	ADJ	ON	2010/03/22 18:33
S42	112	S41 and (metal with (groove or channel or opening))	US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB	ADJ	ON	2010/03/22 18:33
S43	1639	metal near1 island	US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB	ADJ	ON	2010/03/22 18:43
S44	141	S43 and (solar or photovoltaic)	US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB	ADJ	ON	2010/03/22 18:43

S45	117	S44 and nm	US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB	ADJ	ON	2010/03/22 18:43
S46	97	S44 and (nm with metal)	US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB	ADJ	ON	2010/03/22 18:43
S47	21	(nakato near1 yoshihiro) or (hiroshi near1 tsubomura)	US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB	ADJ	ON	2010/03/22 18:45
S48	8	S47 and (solar or photovoltaic)	US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB	ADJ	ON	2010/03/22 18:46
S49	25	fewerenz.in. and (solar or photovoltaic)	US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB	ADJ	ON	2010/03/22 18:47
S50	15	cics with (solar or photovoltaic)	US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB	ADJ	ON	2010/03/22 18:49
S51	5	cics with (solar or photovoltaic)	US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB	ADJ	OFF	2010/03/22 18:50
S52	7	(metal near1 (island or cluster)) with (solar or photovoltaic)	US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB	ADJ	OFF	2010/03/22 19:02

S53	6	((platinum or gold or copper) near1 (island or cluster)) with (solar or photovoltaic)	US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB	ADJ	OFF	2010/03/22 19:02
S54	13	S52 or S53	US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB	ADJ	OFF	2010/03/22 19:02
S55	19125	metal with (embed\$3 or penetrat\$3 or within or inside) with semiconductor	US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB	ADJ	OFF	2010/03/22 19:11
S56	28604	metal with (embed\$3 or penetrat\$3 or within or inside) with (semiconductor or silicon)	US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB	ADJ	OFF	2010/03/22 19:11
S57	1065	S56 and (solar or photovoltaic)	US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB	ADJ	OFF	2010/03/22 19:11
S58	182	S57 and (metal with nm)	US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB	ADJ	OFF	2010/03/22 19:12
S59	454	(solar or photovoltaic) with (mis)	US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB	ADJ	ON	2010/03/22 19:19
S60	239	S59 and (island or cluster or particle or groove or channel or opening)	US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB	ADJ	ON	2010/03/22 19:20

S61	42	S59 and (metal with (island or cluster or particle or groove or channel or opening))	US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB	ADJ	ON	2010/03/22 19:20
S62	197	S60 not S61	US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB	ADJ	ON	2010/03/22 19:24
S63	197	S60 not S61	US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB	ADJ	OFF	2010/03/22 19:26
S64	168	S59 and (island or cluster or particle or groove or channel or opening)	US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB	ADJ	OFF	2010/03/22 19:26
S65	138	S64 not S61	US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB	ADJ	OFF	2010/03/22 19:26
S66	289	(solar or photovoltaic) with (mis)	US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB	ADJ	OFF	2010/03/22 19:33

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